

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 12 April 2001 (12.04.2001)

PCT

(10) International Publication Number WO 01/24972 A3

(51) International Patent Classification7: B66D 1/00, 1/36

(21) International Application Number: PCT/US00/27754

(22) International Filing Date: 6 October 2000 (06.10.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/158,406 60/190,772 7 October 1999 (07.10.1999) US 20 March 2000 (20.03.2000) US

(71) Applicant (for all designated States except US): UNI-HOIST, LLC [US/US]; 800 16th Avenue North, Clanton, AL 35045 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHOATE, Gary, E.

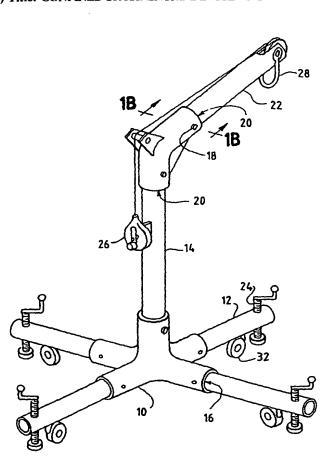
[US/US]; 1055 Holland Street, Lakewood, CO 80215 (US). HAWKINS, Dustin, L. [US/US]; 7711 SW 36th Avenue, Portland, OR 97219 (US). INMAN, Edward [US/US]; 1405 S. Mariposa, Denver, CO 80223 (US).

(74) Agent: GILLY, Richard, P.; Richard P. Gilly Intellectual Property Law Offices, P.C., One Penn Center, Suite 1500, 1617 John F. Kennedy Boulevard, Philadelphia, PA 19103-1815 (US).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

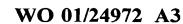
[Continued on next page]

(54) Title: CONFINED SPACE ENTRY DEVICE AND RELATED METHOD OF ASSEMBLY



(57) Abstract: A confined space entry device has modularized components which allow the device to be readily reconfigured. In particular, the extension arm (22) of the device is removably secured to one leg of an elbow (18), while a post or mast (14) is removably secured to the other end of the elbow. The other end of the mast is removably secured to a base which supports the confined space entry device. In one version of the invention, the device includes tubular members made of a polymer composite material. In another version of the invention, the elbow is asymmetric about a central axis and is formed of cast aluminum. The device can include sets of different-length elongated members which can be interchanged with elongated members secured within the device.

WO 01/24972 A





(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report: 21 March 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report

The demand must be filed directly with _____competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ US

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

r International Preliminary E	xamining Authority	use only		
Identification of IPEA Date of receipt		of DEMAND		
THE INTERNATIONAL A	PPLICATION	Applicant's or agent's file reference		
International filing date (06 October 2000	(day/month/year) (06.10.00)	(Earliest) Priority date (day/month/year) 07 October 1999 (07.10.99)		
ated method of assembly				
ed by given name; for a leg- ess must include postal code and	al entity, full official d name of country.)	Telephone No. (202) 755-7710		
		Facsimile No. (202) 755-7246		
		Teleprinter No. N/A		
		Applicant's registration No. with the Office N/A		
1	State (that is, country US	y) of residence:		
ed by given name; for a legal e	ntity, full official desig	nation. The address must include postal code an		
	State (that is, count	ry) of residence:		
	US			
ed by given name; for a legal	entity, full official desig	gnotion. The address must include postal code u		
		•		
	State (that is, coun			
	International filing date (06 October 2000 ated method of assembly ed by given name; for a leg ress must include postal code and	ated method of assembly and by given name: for a legal entity, full official ress must include postal code and name of country.) State (that is, country) State (that is, country)		

ID=215 557 2885

International application No.

Sheet No. . ?. PCT/US00/27754 Continuation of Box No. II APPLICANT(S) If none of the following sub-boxes is used, this sheet should not be included in the demand. Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) INMAN, Edward 1405 S. Mariposa Denver, Colorado 80223 United States of America State (that is, country) of residence: State (that is, country) of nationality: US Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and State (that is, country) of residence: State (that is, country) of nationality: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) State (that is, country) of residence: State (that is, country) of nationality: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) State (that is, country) of residence: State (that is, country) of nationality: Further applicants are indicated on another continuation sheet.

Form PCT/IPEA/401 (continuation sheet) (March 2001)

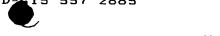
See Notes to the demand form

Sheet No. .3.

International application No. PCT/US00/27754

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	PRESPONDENCE			
The following person is agent common representative and has been appointed earlier and represents the applicant(s) also for international preliminary examination. is hereby appointed and any carlier appointment of (an) agent(s) /common representative is hereby revoked.				
is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier. Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) GILLY, Richard P. Richard P. Gilly Intellectual Property Law Offices, P.C. One Penn Center - Suite 1500 1617 John F. Kennedy Boulevard Philadelphia, Pennsylvania 19103-1815 Telephone No. (215) 557-2880 Facsimile No. (215) 557-2885				
Address for correspondence: Mark this check-box where no agent or common and the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used instead to indicate a special address to which corresponds to the space above is used to the space above in the space above is used to the space above in the space above is used to the space above in t	37,630 on representative is/has been appointed espondence should be sent.			
Statement concerning amendments:* 1. The applicant wishes the international preliminary examination to start on the basis of: The applicant wishes the international preliminary examination to start on the basis of: The applicant wishes the international application as originally filed. The claims				
Language for the purposes of international preliminary examination: English which is the language in which the international application was filed. which is the language of a translation furnished for the purposes of international which is the language of publication of the international application. which is the language of the translation (to be) furnished for the purposes Box No. V ELECTION OF STATES The applicant hereby elects all eligible States (that is, all States which have been design the PCT) excluding the following States which the applicant wishes not to elect:	of international preliminary examination.			

e demand is accompanied by the following elements, in the language referred to in XNO. IV, for the purposes of international preliminary examination: translation of international application sheets amendments under Article 34 copy (or, where required, translation) of amendments under Article 19 copy (or, where required, translation) of statement under Article 19 letter other (specify) demand is also accompanied by the item(s) marked below: fee calculation sheet original separate power of attorney original general power of attorney original general power of attorney, reference number, if any: OX NO. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE at to each signature, indiasas the name of the person signing and the capacity is which the person signs (if such capacity is not obvious from reading the demand). Inchard P. Gilly Intellectual Property Law Offices, P.C. 1006 Penn Center - Suite 1500 617 John F. Kennedy Boulevard histolately in p. A 19103-1815 215) 557-2880 For International Preliminary Examining Authority use only 1. Date of actual receipt of DEMAND:				International application	cation No.
e demand is accompanied by the following elements, in the language referred to in x No. IV, for the purposes of international preliminary examination: translation of international application smendments under Article 34 copy (or, where required, translation) of amendments under Article 19 copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, where required, translation) of attenment under Article 19 sheets copy (or, wher	Sheet No4.			PCT/US00/27754	
c demand is accompanied by the following elements, in the language referred to in Examining Authority use only not No. IV, for the purposes of international preliminary examination: Second	x No. VI CHECK LIST				
amendments under Article 34 copy (or, where required, translation) of attainment under Article 19 copy (or, where required, translation) of attainment under Article 19 copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 chematics about the statement explaining lack of signature sequence listing in computer readable form original separate power of attorney original general power of attorney original general power of attorney reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney, reference number, if any original general power of attorney original	ne demand is accompanied by the following eox No. IV, for the purposes of international pr	lements, in the lan	guage referred to in	Examining A	uthority use only
copy (or, where required, translation) of statement under Article 19 copy (or, where required, translation) of statement under Article 19 letter other (specify) sheets copy (or, where required, translation) of statement under Article 19 letter other (specify) sheets copy (or, where required, translation) of statement under Article 19 demand is also accompanied by the item(s) marked below: fee calculation sheet fee calculation sheet original separate power of attorney original separate power of attorney original separate power of attorney original separate power of attorney; reference number, if any: ox No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE atto seek signature, indicates the same of the person signing and the capacity in which the person signs (if such capacity in not obvious from reading the demand). attorney for/Applicants inchard P. Gilly Intellectual Property Law Offices, P.C. for John F. Kennedy Boulevard historiery for/Applicants inchard P. A 19103-1815 215) 557-2880 For International Preliminary Examining Authority use only Date of actual receipt of DEMAND: Adjusted date of receipt of the demand due to CORRECTIONS under Rule 60.1(b). The date of receipt of the demand is AFTER the expiration of 19 months from the priority date as extended by virtue of Rule 80.5. Although the date of receipt of the demand is WITHIN the period of 19 months from the priority date, the delay in am is EXCUSED pursuant to Rule 82. For International Bureau use only	translation of international application	:	sheets		
of mendments under Article 19 copy (or, where required, translation) of statement under Article 19 letter other (specify) demand is also accompanied by the item(s) marked below. fee calculation sheet original separate power of attorney reference number, if any. IN NO. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE at the such signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not abvious from reading the demand). Inchard P. Gilly Intellectual Property Law Offices, P.C. 1006 Penn Center - Suite 1500 617 John F. Kennedy Boulevard hindidelphia, PA 19103-1815 215) 557-2885 For International Preliminary Examining Authority use only 1. Date of actual receipt of demand due to CORRECTIONS under Rule 60.1(b): 3. The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. 4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5. 5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arm is EXCUSED pursuant to Rule 82. For International Bureau use only For International Bureau use only	amendments under Article 34	:	sheets		
letter other (specify) sheets	copy (or, where required, translation) of amendments under Article 19	:	sh ee ts		
eterrand is also accompanied by the item(s) marked below: eterrand fee calculation sheet fee ca	copy (or, where required, translation) of statement under Article 19	:	sheets		
e demand is also accompanied by the item(s) marked below: fee calculation sheet fee calcu	letter	:	sheets		
Statement explaining tack of signature S. Statement explaining tack of signature original separate power of attorney Sequence listing in computer readable form other (specify): other (speci	other (specify)	:	sheets		
For International Preliminary Examining Authority use only 1. Date of actual receipt of DEMAND: 2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b): 3. The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. 4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5. 5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrive EXCUSED pursuant to Rule 82.	original separate power of attorney original general power of attorney copy of general power of attorney; reference number, if any: IN NO. VII SIGNATURE OF APPLICA to each signature, indicate the name of the person significant P. Gilly Intellectual Property Law (inchard P. Gilly Intel	ANT, AGENT O	7. other (special common RE)	fy): PRESENTATIVE	
to CORRECTIONS under Rule 60.1(b): The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrais EXCUSED pursuant to Rule 82. For International Bureau use only	AX: (215) 557-2885 For Intern	ational Preliminary	Examining Authority	use only	
The date of receipt of the demand is MITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrive EXCUSED pursuant to Rule 82. For International Bureau use only	Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				
Rule 80.5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrais EXCUSED pursuant to Rule 82. For International Bureau use only	from the priority date and item 4 c	or 5, below, does no	т арргу.	informed	accordingly.
is EXCUSED pursuant to Rule 82. For International Bureau use only	Rule 80.5.				
	5. Although the date of receipt of the is EXCUSED pursuant to Rule 82	demand is after the	e expiration of 19 mo	nths from the priority	date, the delay in arri
Demand received from IPEA on:		For Internatio	nal Bureau use only		
	Demand received from IPEA on:				•



CHAPTER II

PCT

FEE CALCULATION SHEET

Annex to the Demand

· -		F	or International	Preliminary	Examining Authority	use only
International application No.	PCT/US00/27754					
Applicant's or agent's file reference	600-3001	Date	stamp of the IP.	EA		
Applicant Uni-Hoist, LLC	·.					
CALCULATION OF	PRESCRIBED FEES					
1. Preliminary examin	nation fee	. [490.00	P		
Where the application of the app	oplicants from certain States are stion of 75% of the handling fee ant is (or all applicants are) so at to be entered at H is 25% of the	o e	137.00	Н		
Total of prescribed Add the amounts e and enter total in t	l fces intered at P and H he TOTAL box		627.00 TOTAL			
MODE OF PAYME	TA					
authorization account with	to charge deposit the IPEA (see below)	cash revenue stamps				
postal money	order	coupons				
bank draft		other (specify):				
AUTHORIZATION	N TO CHARGE (OR CREDIT)	DEPOSIT ACC	COUNT			
(This mode of payme	ent may not be available at all IPI	EAs)	IPEA/		us	
Authorizatio	on to charge the total fees indicate	d above.	Deposit Accou		0695	
charge any	box may be marked only if the connuits of the IPEA so permit) Authorities of the IPEA so permit) Authorities or credit any overpay dicated above.	IOI IZALIOII (O	Date: May 4, Name: Richar Signature:			
	1 (1 forth 2001)			\longrightarrow	See Notes to the fee	alculation shee

Form PCT/IPEA/401 (Annex) (March 2001)

LegalStar 2001, Form PCTDFEE

RTIFICATE OF Micant(s): Uni-Hoist,	IAILING BY "EXPRESS	MAIL." (37 CFR 1.10)	Docket No. 600-3001
Serial No. PCT/US00/27754	Filing Date 06 October 2000	Examiner	Group Art Unit
ention: Confined space	ce entry device and related met	hod of assembly	
	e following correspondence:		
CT Demand; PCT Fee 727.00		l to USPTO (designated elected offic	ce); Check in amount of
		ne of correspondence)	
		vice "Express Mail Post Office to	
37 CFR 1.10 in an en	velope addressed to: The Ass	sistant Commissioner for Patents,	Washington, D.C. 20231
May 4,			
\-/		Helen Cikal	0
		(Typed or Printed Name of Person Ma.	iling Correspondence)
		Weller Cilia	lo
		(Signature of Person Mailing C	
		EL593391177 ("Express Mail" Mailing La	
		, .	
A Z	1		

From the INTERNATIONAL SEECHING AUTHORITY

RICHARD P. GILLY RICHARD P. GILLY INTELLECTUAL PROPERTY LAW OFFICES, P.C.; ONE PENN CENTER 1617 JOHN F. KENNEDY BLVD., SUITE 1500 PHILADELPHIA, PA 19103-1815

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

	(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 14 AUG2001			
Applicant's or agent's file reference 600-3001	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US00/27754	International filing date (day/month/year) 06 October 2000 (06.10.2000)			
Applicant UNI-HOIST, LLC				
1. The applicant is hereby notified that the international search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	us of the international application (see Rule 46):			
When? The time limit for filing such amendments is non international search report; however, for more do	mally 2 months from the date of transmittal of the trails, see the notes on the accompany sheet.			
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	i			
For more detailed instructions, see the notes on	the accompanying sheet.			
2. The applicant is hereby notified that no international search a Article 17(2)(a) to that effect is transmitted herewith.	report will be established and that the declaration under			
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2. the applicant is notified that:			
- · · · ·	transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest: the appli	icant will be notified as soon as a decision is made.			
4. Further action(s): The applicant is reminded of the following:				
Shortly after 18 months from the priority date, the international appl If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided i completion of the technical preparations for international publica	of withdrawal of the international application, or of the in rules 90 bis 1 and 90 bis 3, respectively, before the			
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the ISA/US	Authorized officer			
Commissioner of Patents and Trademarks Box PCT	Katherine Matecki			
Washington, D.C. 20231				
Facsimile No. (703)305-3230	Telephone No. (703)308-1113			

Form PCT/ISA/220 (July 1998)

NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]:
 Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

In what ianguage?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements offersch designated/elected Office, see Volume II of the PCT Applicant's Guide.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The cisims only.

The description and the drawings may only be smended during international preliminary examination under Chapter IL

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to flie the smeadments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by smeading the text of one or more of the claims as filed.

A explorement short must be submitted for each short of the claims which, on account of an amendment or amendments, differs from the short originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in aparticular, indicate, in connection with each claim appearance indicates indications (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.



INTERNATIONAL SEARCH REPORT

P

Intern nal application No.

PCT/US00/27754

			<u></u>		
A. CLAS IPC(7) US CL	1PC(7) : B66D 1/00, 1/36 V				
According to	International Patent Classification (IPC) or to both n	ational clas	sification and IPC		
	DS SEARCHED				
Minimum do U.S. : 2	cumentation searched (classification system followed 54/266, 325, 334, 264, 335	by classific	cation symbols)		
Documentation	on searched other than minimum documentation to the	e extent tha	t such documents are included	d in the fields searched	
Electronic da	ata base consulted during the international search (name	ne of data t	pase and, where practicable, s	search terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a			Relevant to claim No.	
X	US 5,083,395 A (DANIELS) 28 January 1992 (28.0	02.1992) , c	olumn 3, lines 32-52.	1, 2	
				3-15	
Y					
Y	US 1,239,524 A (ROOT) 11 September 1917 (11.09		e entire document	3-15	
Α	US 1,978,999 A (JONES) 30 October 1934 (30.10.				
A	US 5,195,726 A (KANER) 23 March 1993 (23.03.)				
A	US 5,765,809 A (BAKER et al.) 16 June 1998 (16.	06.1998)			
A,E	US 6,202,868 B1 (MURRAY) 20 March 2001 (20.0	03.2001)			
A	GB 2 038 774 A (BELLAMY) 30 July 1980 (30.07)	. 1980)			
			4.		
Further	documents are listed in the continuation of Box C.		See patent family annex.		
• s	pecial categories of cited documents:	-T"	later document published after the inte date and not in conflict with the appli	cation but cited to understand the	
	defining the general state of the art which is not considered to be lar relevance		principle or theory underlying the inv	ention	
•	plication or patent published on or after the intermitional filing date	-x-	document of particular relevance; the considered novel or cannot be considered when the document is taken alone		
establish	establish the publication date of another citation or other special reason (as "Y" document of particular relevance; the claimed invention cannot be specified) considered to involve an inventive step when the document is				
"O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"P" document published prior to the international filing date but later than the "&" document member of the same parent family priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report 14 AUG 2001					
30 June 200! (30.06.2001) Name and mailing address of the ISA/US Authorized officer					
	alling address of the ISA/US missioner of Patents and Trademarks	*			
Box TOT Washington, D.C. 20231					
Facsimile No. (703)305-3230 Telephone No. (703)308-1113					

Form PCT/ISA/210 (second sheet) (July 1998)



ID=215_557 2885

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file referen	ACTION	FOR FURTHER ACTION see Notification of Transmittat of International S (Form PCT/ISA/220) as well as, where applicab below.	
International application No. PCT/US00/27754	International filing date (day/mo 06 October 2000 (06.10.2000)	nsh/year)	(Earliest) Priority Date (day/month/year) 07 October 1999 (07.10.1999)
Applicant UNI-HOIST, LLC			
applicant according to Article 1	has been prepared by this International 8. A copy is being transmitted to the In	Searching A ternational	Authority and is transmitted to the Bureau.
This international search report It is also acco	consists of a total of sheets. companied by a copy of each prior art doc	cument cite	d in this report.
language in which it	was filed, unless otherwise indicated unde	r this item.	e basis of the international application in the
Authority (Rule 23 b. With regard to any n	.1(b)).		he international application furnished to this he international application, the international
	ternational application in written form.		
filed together with	the international application in computer	readable for	m.
furnished subsequ	ently to this Authority in written form.		
furnished subsequ	ently to this Authority in computer readabl	e form.	
	the subsequently furnished written sequent cation as filed has been furnished.	e listing do	es not go beyond the disclosure in the
the statement that been furnished.	the information recorded in computer read	able form is	s identical to the written sequence listing has
2. Certain claims w	ere found unsearchable (See Box I)		
-	a is lacking (See Box II).		
4. With regard to the title,	A Control of the second second		
<u> </u>	ed as submitted by the applicant.	1	
the text has been o	established by this Authority to read as fol	lows:	
5. With regard to the abstract	rt.		
_	ed as submitted by the applicant.		
the text has been may, within one r	established, according to Rule 38.2(b), by nonth from the date of mailing of this inte	this Author	arch report, submit comments to this
6. The figure of the drawing	s to be published with the abstract is Figu	re No. <u>1A</u>	
as suggested by the	ne applicant.		None of the figures
because the appli	cant failed to suggest a figure.		
because this figu	re better characterizes the invention.		

Form PCT/ISA/210 (first sheet) (July 1998)

CT/US00/27754

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A confined space entry device has modularized components which allow the device to be readily reconfigured. In particular, the extension arm (22) of the device is removably secured to one leg of an elbow (18), while a post or mast (14) is removably secured to the other end of the elbow. The other end of the mast is removably secured to a base which supports the confined space entry device.

In one version of the invention the device includes tubular members made of a polymer composite material. In another version of the invention, the elbow is asymmetric about a central axis and is formed of cast aluminum. The device can include sets of different-length elongated members which can be interchanged with elongated members secured within the device.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

P08/08

INTERNATIONAL SEARCH REPORT

national application No.

PCT/US00/27754

A CT	ASSIFICATION OF SUBJECT MATTER				
IPC(7) : B66D 1/00, 1/36					
US CL	: 254/266, 325, 334				
	to International Patent Classification (IPC) or to both n	ational clas	sification and IPC		
B. FII	ELDS SEARCHED				
	documentation searched (classification system followed	by classific	cation symbols)		
U.S. :	254/266, 325, 334, 264, 335		•		
Document	ation searched other than minimum documentation to th	e extent tha	t such documents are include	ed in the fields searched	
Elegrangia	data base consulted during the international search (na	me of data i	sace and where practicable	severb terms used)	
Electionic	data base consulted during the international search (nat	ne or data	base and, where practicable,	search terms used)	
C 700	CONCENTRATION TO BE DELEVANT				
C. DC	* Citation of document, with indication, where a	ppropriate	of the relevant passages	Relevant to claim No.	
X	US 5,083,395 A (DANIELS) 28 January 1992 (28.			1, 2	
)	4,,,, ,,,,,,,		•	***	
Y				3-15	
Y	US 1,239,524 A (ROOT) 11 September 1917 (11.0	9.1917), se	e entire document	3-15	
A	US 1,978,999 A (JONES) 30 October 1934 (30.10.				
	US 5,195,726 A (KANER) 23 March 1993 (23.03.				
A					
A	US 5,765,809 A (BAKER ct al.) 16 June 1998 (16				
A.E	US 6,202,868 B1 (MURRAY) 20 March 2001 (20.	03.2001)			
A	GB 2 038 774 A (BELLAMY) 30 July 1980 (30.07	7.1980)			
}					
Ì					
Furi	ther documents are listed in the continuation of Box C.		See patent family annex.		
-	Special categories of cited documents:	"T"	later document published after the i	mernational filing date or priority	
"A" docu	ment defining the general state of the art which is not considered to be		date and not in conflict with the apprinciple or theory underlying the in		
	Licalar Lejenspee		•		
"E" earlie	er application or patent published on or after the international filing date	-X-	document of particular relevance; if considered novel or cannot be consi		
1			when the document is taken alone		
	ment which may throw doubts on priority claim(s) or which is cited to lish the publication date of another citation or other special reason (as	-Y-	document of particular relevance; t	he claimed invention cannot be	
speci	(fied)	•	considered to involve an inventive a	uch documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art					
"P" docu	"P" document published prior to the international filing date but later than the "&" document member of the same patent family				
prior	rity date claimed				
Date of t	he actual completion of the international search	Date of	mailing of the international	search report	
30 lune	2001 (30.06.2001)		14 AUG 200	1,	
	d mailing address of the ISA/US	Authori	zed officer	1	
Commissioner of Patents and Trademarks					
	Box PCT Washington, D.C. 20231				
Facsimil	Facsimile No. (703)305-3230 Telephone No. (703)308-1113				

Form PCT/ISA/210 (second sheet) (July 1998)